

**SURVEY SPECIFICATIONS**

**AIRCRAFT**

N4489L CESSNA TITAN 404

**MAGNETOMETER**

SPLIT SPOUT CESIUM SCINTREX HB

RESIDUAL FIELD

10000 nT

CYCLE RATE

0.10 second

SAMPLE INTERVAL

8 metres (average)

**SPECTROMETER**

256 CHANNELS

1000

VOLUME

50.34 litres

CYCLE RATE

1.00 second

SAMPLE INTERVAL

80 metres (average)

**DOPPLER RECOVERY**

PICODAS PDRS-1000 ACQUISITION SYSTEM

11 CHANNEL RMS CR33A

**FLIGHT LINE SPRINGS**

800 metres

TE LINES

2150 metres

**FLIGHT LINE DIRECTION**

080-270 degrees

TRaverse Lines

090-180 degrees

**SURVEY SPACING**

122 metres = mean terrain clearance

**NAVIGATION**

GPS navigation system

**FLIGHT PATH RECOVERY**

GPS located

with doppler positioning between located fiducials

**DATA PROCESSING**

**REGIONAL FIELD**

IGRF model 1990 and secular variation model 1990-1995 have been removed.

400 mGal = 1 nT

10 nanoTesla

0.40 fiducial

77° 59' 30" N

36° 30' 00" E

54-03-20-13-18 YY-MM-DD-HH:MM

52879 nanoTesla

**GRID CELL SIZE**

CONTOUR INTERVAL

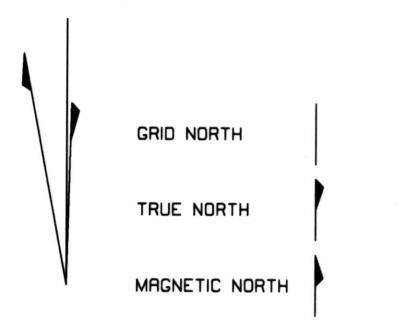
PARALLAX CORRECTION

SAMPLE DATA VALUE BEFORE IGRF REMOVAL

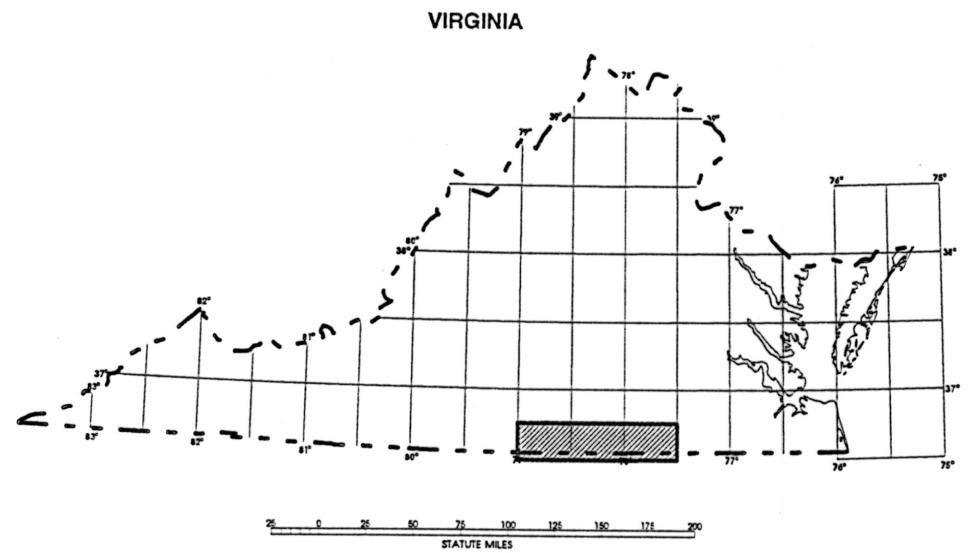
Scale 1:100 000  
0 2 4 6 8 10 miles  
2 0 2 4 6 8 km  
NORTH AMERICAN DATUM 1927  
TRANSVERSE MERCATOR PROJECTION, CENTRAL MERIDIAN -75°

**RESIDUAL AEROMAGNETIC MAP OF THE DANVILLE AREA,  
VIRGINIA AND NORTH CAROLINA**

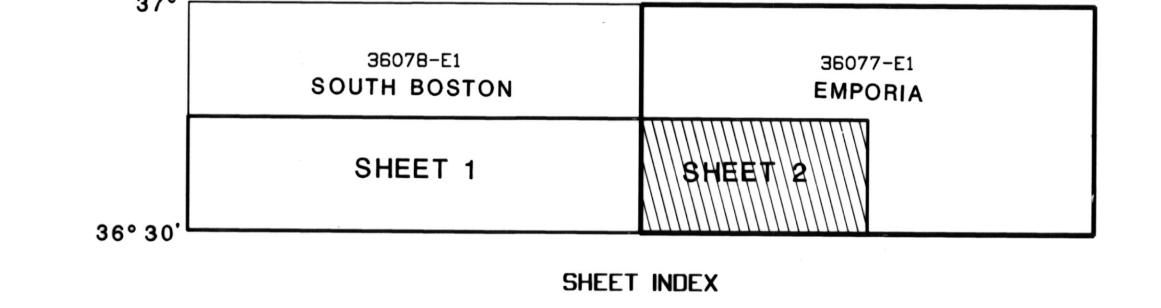
BY  
U.S. GEOLOGICAL SURVEY  
1994



GRID NORTH  
TRUE NORTH  
MAGNETIC NORTH



LOCATION OF THIS STUDY AREA



SHEET INDEX  
SHEET No. 36077-E1

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